

INDEX

DOKLADY BOTANICAL SCIENCES

Volumes 184-189, 1969

AUTHOR INDEX

DOKLADY BOTANICAL SCIENCES

Volumes 184-189, 1969

(A translation of the Botanical Sciences Sections of Doklady Akademii Nauk SSSR)

A

- Abutalybov, M. G. - 32
Aerov, I. L. - 92
Agnistikova, V. N. - 128
Aksanova, N. P. - 82
Andreeva, I. N. - 183
Antonov, A. S. - 3
Antonova, K. G. - 155
Averina, N. G. - 65

B

- Baburina, O. M. - 149
Babushkin, L. N. - 79
Balaur, N. S. - 61, 179
Baleva, E. F. - 135
Bavrina, T. V. - 82
Belozerskii, A. N. - 3
Butenko, R. G. - 132

C

- Chailakhyan, M. Kh. - 82, 117,
121, 167, 171, 177, 191
Chebotar', A. A. - 14

D

- Dmitruk, A. P. - 115
Drakina, T. I. - 128
Dubrov, A. P. - 96

F

- Frolov, R. I. - 147
Frolova, I. A. - 177

G

- Gaponenko, V. I. - 135
Grishina, G. S. - 163
Gulyaev, B. I. - 92

I

- Ivantsova, L. V. - 174

K

- Karatygin, I. V. - 41
Kochankov, V. G. - 167
Kamentseva, I. E. - 50
Karako, P. S. - 124
Kefeli, V. I. - 69, 128
Khavkin, È. E. - 149
Khlopennova, L. P. - 191
Klyachko, N. L. - 25, 112
Kochankov, V. G. - 117
Komizerko, E. I. - 72
Konstantinova, T. N. - 82
Korableva, N. P. - 8
Koroleva, O. Ya. - 174
Krishchenk, V. P. - 115
Kulaeva, O. N. - 25, 112
Kutyurin, V. M. - 86, 141

L

- Lipsits, D. V. - 5, 105
Losev, A. P. - 53
Lositskaya, T. V. - 135
Lozhnikova, V. N. - 121
Lyalin, O. O. - 144

M

- Makeev, A. M. - 46
Makhdad, M. - 115
Manorik, A. V. - 56
Manul'skii, V. D. - 92
Mardanov, A. A. - 32
Marinova, E. I. - 3
Martinovich, L. N. - 167
Maslova, I. P. - 183
Maslova, T. G. - 174
Metlitskii, L. V. - 8, 158

- Miroslavov, E. A. - 161
Molotkovskii, Yu. G. - 99
Morozova, È. V. - 8
Muromtsev, G. S. - 128

N

- Nazarov, N. M. - 86
Nechaeva, N. T. - 155
Nekrasova, T. V. - 171
Nikolaeva, G. N. - 135

O

- Obrucheva, N. V. - 28, 35
Ozeretskaya, O. L. - 158

P

- Palilova, A. N. - 108
Pasichnyi, A. P. - 144
Pavlova, M. K. - 132
Perelyaeva, A. I. - 149
Petrov, V. E. - 17
Polikarpochkina, R. T. - 149
Popova, I. A. - 174
Popova, L. V. - 8
Pustovoitova, T. N. - 69
Pyarnik, T. R. - 163

R

- Ragozina, I. I. - 5, 105
Rozonova, L. N. - 141

S

- Safaraliev, P. M. - 32
Safonov, V. I. - 58, 89
Saidova, S. A. - 69, 128
Samuilov, F. D. - 17, 20
Sapozhnikov, F. I. - 174
Savchenko, G. E. - 124

Sedykh, N. V. - 20
Semenenko, A. D. - 187
Serpokrylova, L. S. - 108
Shakhov, A. A. - 61, 179
Shevchuk, S. N. - 135
Shevyakova, N. I. - 72
Shlyk, A. A. - 53, 65, 124, 135
Shneider, Yu. I. - 5, 105
Silaeva, A. M. - 10
Smol'skaya, A. V. - 108
Starchenkov, E. P. - 56
Stom, D. I. - 44
Stoyanov, Zh. - 147

T
Turbin, N. V. - 108
Turetskaya, R. Kh. - 69

U
Ulubekova, M. V. - 86, 141

V
Vartapetyan, B. B. - 183
Vasilevskaya, V. K. - 155
Vasyukova, N. I. - 158
Veidenberg, A. É. - 58, 89

Vezitskii, A. Yu. - 124
Viil', Yu. A. - 163
Vlasenok, L. I. - 135
Voskresenskaya, N. P. - 163

Y
Yanina, L. I. - 177

Z
Zemlyanukhin, A. A. - 46
Zhestkova, I. M. - 99
Zyalalov, A. A. - 139

TABLES OF CONTENTS

DOKLADY BOTANICAL SCIENCES

Volumes 184-189, 1969

(A translation of the Botanical Sciences Sections of Doklady Akademii Nauk SSSR)

Engl./Russ.

VOLUME 184, JANUARY-FEBRUARY, 1969

BOTANY

- | | | |
|--|---|-----|
| Homology in Primary DNA Structures of Certain Monocotyledons—E. I. Marinova,
A. S. Antonov, and A. N. Belozerskii | 3 | 483 |
|--|---|-----|

PHYTOPATHOLOGY

- | | | |
|---|---|-----|
| Protease Activity in Potato Tissues Infected by <u>Pectobacterium phytophthora</u>
—I. I. Ragozina, Yu. I. Shneider, and D. V. Lipsits | 5 | 242 |
| Study of Specific Growth Inhibitors as Related to Plant Dormancy and Immunity
—N. P. Korableva, E. V. Morozova, L. V. Popova, and L. V. Metlitskii | 8 | 979 |

PLANT ANATOMY

- | | | |
|---|----|-----|
| Chloroplast Protuberances—A. M. Silaeva | 10 | 486 |
|---|----|-----|

PLANT CYTOLOGY

- | | | |
|---|----|-----|
| Further Observations on the Ultrastructure of Pollen Grains—A. A. Chebotar' | 14 | 449 |
|---|----|-----|

PLANT PHYSIOLOGY

- | | | |
|--|----|-----|
| Changes in the Energetic State of Plants with Disrupted Phosphorus Nutrition
—F. D. Samuilov and V. E. Petrov | 17 | 239 |
| Cytoplasmic Structure in Plants with Disturbed Energetic Metabolism—F. D. Samuilov
and N. V. Sedykh | 20 | 489 |

VOLUME 185, MARCH-APRIL, 1969

PLANT PHYSIOLOGY

- | | | |
|---|----|------|
| The Influence of Puromycin on Protein Synthesis in a Cell-Free System from Leaves
of Different Ages—N. L. Klyachko and O. N. Kulaeva | 25 | 709 |
| Primary Stages of Lignification in Roots of Corn Seedlings—N. V. Obrucheva | 28 | 713 |
| Rhythms of Intake and Incorporation of S ³⁵ into Proteins of Corn Roots—M. G. Abutalybov,
A. A. Mardanov, and P. M. Safarov | 32 | 954 |
| Connection between Growth Processes in Corn Root and Initiation of Lignification Process
—N. V. Obrucheva | 35 | 1178 |

VOLUME 186, MAY-JUNE, 1969

- | | | |
|---|----|-----|
| Sorus Formation and Spore Differentiation in <u>Ustilago maydis</u> (DC.) Cda—I. V. Karatygin | 41 | 717 |
| PLANT PHYSIOLOGY | | |
| Quinones as a Possible Active Form of Polyphenol Growth Inhibitors—D. I. Stom | 44 | 714 |
| Effect of the Gaseous Composition of the Environment on the Metabolism of 1,4-C ¹⁴ -Succinate
Injected into Corn Leaves—A. A. Zemlyanukhin and A. M. Makeev | 46 | 964 |
| Thermal Stability of Photosynthesis and Respiration in Spring and Summer Leaves of
<u>Pulmonaria obscura</u> Dumort—I. E. Kamentseva | 50 | 968 |
| Relationship between Metabolism and Heterogeneity of Carotenoids and Chlorophyll
—A. P. Losev and A. A. Shlyk | 53 | 971 |

Fixation of Atmospheric Nitrogen by Fractions Obtained from Lupine Root Nodules —A. V. Manorik and E. P. Starchenkov	56	975
Prognosis of Scion-Stock Physiological Incompatibility in Apple by Determination of Protein Spectra —V. I. Safonov and A. E. Veidenberg	58	978
Action Spectrum and Structure of Chloroplasts —A. A. Shakhov and N. S. Balaur	61	1206
Stimulation by Kinetin of the Accumulation of Protochlorophyllide in Normal Green Leaves in the Dark —A. A. Shlyk and N. G. Averina	65	1209
PLANT PHYSIOLOGY		
Effect of Abscisic and Paracoumaric Acids on Seed Germination —V. I. Kefeli, R. Kh. Turetskaya, T. N. Pustovoitova, and S. A. Saidova	69	1437
The Metabolism of Amino Acids in a Culture of Callus Tissue from Cabbage Leaves (<i>Brassica oleracea</i> Var. <i>Capitata</i>) under Conditions of Salinization —N. I. Shevyakova and E. I. Komizerko	72	1441
ERRATA	75	

VOLUME 187, JULY-AUGUST, 1969

PLANT PHYSIOLOGY

Absorption of Water Vapor from Intercellular Space —L. N. Babushkin	79	462
On the Ability of Tobacco Stem Calluses to Form Vegetative and Generative Buds in Culture In Vitro —T. N. Konstantinova, N. P. Aksanova, T. V. Bavrina, and M. Kh. Chailakhyan	82	466
On the Balance between the Rate of Liberation of Oxygen and the Conversion Reactions of Xanthophylls in <i>Elodea canadensis</i> in the Presence of Light of Different Spectral Composition —V. M. Kutyurin, M. V. Ulubekova, and N. M. Nazarov	86	470
Alkaline Proteins and Isoenzymatic Spectra of the Cortex in Apple Types with Differing Graft Compatibility —A. É. Veidenberg and V. I. Safonov	89	674
Spectral Light Curves of Photosynthesis in Beet Leaves and Their Relationship to Pigment Content —I. L. Aerov, B. I. Gulyaev, and V. D. Manul'skii	92	1194
The Effect of Heliogeophysical Factors on Membrane Permeability and Diurnal Rhythms of Excretion of Organic Substances by Plant Roots —A. P. Dubrov	96	1429
Immunochemical Analysis of Antigens of the Chloroplasts during Greening —I. M. Zhestkova and Yu. G. Molotkovskii	99	1432

VOLUME 188, SEPTEMBER-OCTOBER, 1969

PHYTOPATHOLOGY

Pectolytic Enzymes in a Culture of <i>Pectobacterium phytophthorium</i> and in Potato Tissue Injured by It —I. I. Ragozina, Yu. I. Shneider, and D. V. Lipsits	105	937
---	-----	-----

PLANT EMBRYOLOGY

The Influence of Sterile Cytoplasm on the Course of Microsporogenesis in Maize Lines —N. V. Turbin, A. N. Palilova, A. V. Smol'skaya, and L. S. Serpokrylova	108	1179
---	-----	------

PLANT PHYSIOLOGY

Thermal Stability of Protein Synthesis in Leaves of Different Ages —N. L. Klyachko and O. N. Kulaeva	112	230
The Effect of Morphactins on Protein Metabolism in Wheat Plants —V. P. Krishchenko, A. P. Dmitruk, and M. Makhdad	115	233
The Effects of CCC Retardant, Morphactin, and Abscisin on Growth and Flowering of Cone-Flower Plants —M. Kh. Chailakhyan and V. G. Kochankov	117	477
Influence of Light and Darkness on the Content of Gibberellins in Seedlings and Adult Plants of Field Beans —V. N. Lozhnikova and M. Kh. Chailakhyan	121	715
Inhibition of the Protochlorophyllide Metabolism in Green Leaves by Chloramphenicol —A. A. Shlyk, G. E. Savchenko, A. Yu. Vezitskii, and P. S. Karako	124	718

Biosynthesis and Physiological Activity of Indoleacetic Acid and Gibberellin in the Presence of Phenolic Growth Inhibitors and Morphactin — V. I. Kefeli, G. S. Muromtsev, V. N. Agnistikova, S. A. Saidova, and T. I. Drakina	128	1182
Effect of Kinetin and Auxin on the Process of Tissue Formation from Individual Tobacco Cells in In Vitro Culture — M. K. Pavlova and R. G. Butenko	132	1186
Labilization of Molecules of Chlorophylls a and b under the Influence of Detergents — A. A. Shlyk, V. I. Gaponenko, G. N. Nikolaeva, L. I. Vlasenok, S. N. Shevchuk, E. F. Baleva, and T. V. Lositskaya	135	1189
Thermodynamic Features of the State of Water in Plants — A. A. Zyalalov	139	1396
Effect of Methylamine on the Hill Reaction with Varying Activity of the Chloroplasts — V. M. Kutyurin, M. V. Ulubekoba, and L. N. Rozonova	141	1399
Comparative Study of the Bioelectric Response of a Plant Leaf to Action of CO ₂ and Light — O. O. Lyalin and A. P. Pasichnyi	144	1402
Respiration and Dissipation Entropy of a Leaf System in the Dark at Different Air Humidities — Zh. Stoyanov and R. I. Frolov	147	1405
Effects of Protein Synthesis Inhibitors on Increase of Glutamate Dehydrogenase, Malate Dehydrogenase, and Lactate Dehydrogenase Activity in Elongating Cells of Corn Roots — E. E. Khavkin, R. T. Polikarpochkina, A. I. Perelyaeva, and O. M. Baburina	149	1407

VOLUME 189, NOVEMBER-DECEMBER, 1969**BOTANY**

Ecological Classification of Annual Plants of the Kara-Kum — N. T. Nechaeva, V. K. Vasilevskaya, and K. G. Antonova	155	902
--	-----	-----

PHYTOPATHOLOGY

Study of Potato Phytoalexins — O. L. Ozeretskaya, N. I. Vasyukova, and L. V. Metlitskii	158	1146
--	-----	------

PLANT CYTOLOGY

Submicroscopic Morphology of Paired Epidermal Cells in Grasses — E. A. Miroslavov	161	637
---	-----	-----

PLANT PHYSIOLOGY

Influence of Oxygen Concentration and Illumination Intensity on Distribution of Labeled Carbon in the Products of Photosynthesis in the Kidney Bean — N. P. Voskresenskaya, Yu. A. Viil', G. S. Grishina, and T. R. Pyarnik	163	213
Chemical Regulation of Growth and of Reproductive Organ Formation in Diclinous Plants — M. Kh. Chailakhyan, L. N. Martinovich, and V. G. Kochankov	167	662
Effect of Retardant CCC and Gibberellin on Growth and Flowering of Lemon and Peach — M. Kh. Chailakhyan and T. V. Nekrasova	171	905
On the Existence of Two Types of Photochemical De-epoxidation Reaction of Violaxanthin in the Leaves of Green Plants — F. I. Sapozhnikov, L. V. Ivantsova, T. G. Maslova, I. A. Popova, and O. Ya. Koroleva	174	1135
Flowering of Shoots from Epiphytic Buds on Rooted Leaves of Bryophyllum — M. Kh. Chailakhyan, L. I. Yanina, and I. A. Frolova	177	1139
Changes in the Structure of Mitochondria in Maize under the Effect of Light — A. A. Shakhev and N. S. Balaur	179	1142
Oxygen Regime and Ultrastructure of Rice Root Cells — B. B. Vartapetyan, I. N. Andreeva, and I. P. Maslova	183	1392
Effect of Autoparametric Resonance in Plants — A. D. Semenenko	187	1396
Photosynthetic Sensitivity of the Rosette Leaves of Rootless Rudbeckia Plants — M. Kh. Chailakhyan and L. P. Khlopchenko	191	1400

INDEX

Author Index, Volumes 184-189, 1969	197
Tables of Contents, Volumes 184-189, 1969	199

